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Thanks, Ro 7/6/2006

U.S. Patent Application No.: 10/510,030

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First Named Inventor: Huai Lin

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Cancelled)

2. (Cancelled)

3. (Currently amended) ~~The A~~ system for controlling a permanent magnet electric motor (12) ~~according to claim 1, comprising:~~

a motor controller (16), said motor controller (16) using phase currents of the permanent magnet electric motor (12) at a preset speed ω to generate voltage-controlling signals used to obtain changes in torque T of the permanent magnet electric motor (12); and

a power stage (14), said power stage (14) receiving the voltage-controlling signals from the motor controller (16) and feeding them back to the permanent magnet electric motor (12), wherein said motor controller (16) is a park vector rotator unit that generates continuously rotating angles.

4. (Currently amended) The system for controlling a permanent magnet electric motor according to ~~any one of claims 1 to claim 3~~, said system continuously responding to changes of the preset speed and torque of the permanent magnet electric motor (12) as well as to changes in ambient conditions.

5. (Cancelled)

6. (Cancelled)